Infarctoid chest pain remains the cardinal sign of Acute Coronary Syndrome, in its absence it is frequently dyspnea that reveals a consummate infarction. However, it may be that both are missing, depending on the patient’s history frequently in diabetics at the neuropathy stage, to be revealed only by atypical pain. The absence of both signs, with enzymatic movements, signs the silent infarction. It is therefore unprecedented to note in a patient, without diabetic neuropathy, to be a victim of silent myocardial ischemia revealed by a thromboembolic complication, hence the interest of our case report with his journey on his management.

Keywords: SETMI; Post-MI; Silent myocardial ischemia; Coronarography; Viability; Angioplasty

Introduction
Acute Coronary Syndrome (ACS) is one of the most common cardiovascular diseases, a realpublic health problem with nearly 12 million deaths attributed per year worldwide and 2500 acute coronary syndromes per million inhabitants [1]. Divided into two, the SCA comprises two nosology among which Myocardial Infarction (MI) with ST overshift ("STEMI", AngloSaxon acronym for "ST-segment elevation myocardial infarction") [2] whose chest pain is the cardinal clinical manifestation accompanied by electrical modification of the ST segment on the electrocardiogram (ECG) with Q-wave monitoring and associated with an elevation or decrease of a biomarker of myocardial necrosis (troponin Tc or Ic, preferably ultrasensitive).

We report, the clinical course to the therapeutic of a patient subject to a silent myocardial ischemia revealed by a thromboembolic complication.

Clinical Case
This is a 57-year-old patient, non-diabetic, chronic smoker for 30 years to 1 pack of cigarettes per day in withdrawal for 2 months. He consults following the occurrence in family of a deviation of the mouth accompanied by hypotonia of the left hemibody with remission of signs in less than 1 hour on the way to the hospital where he benefits from an angio-cerebral CT without particularities, then referred to our department where the non-invasive exploration (NIE) cardiovascular motivates his hospitalization for his care.

Trans thoracic Doppler echocardiography (ETT) is objective a left ventricle of limit size, no hypertrophied, seat of an early apical aneurysm with Akinesias apical and adjacent segments, middle segments of the anteroseptal (AS), inferoseptal (IS) and inferior walls (Inf), as well as an apical thrombus of 7x30 mm, with a frejection action severely altered in SBP (Figure 3).

Coronary angiography objectifies a normal calibre network with a very tight lesion of the interventricular artery (IVA) medium (Figure 4).
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Figure 1: 1st ECG: QS aspect in ASA and over persistent ASA shift, lateral and lower, soit a postIDM in circumferential (before diagnostic coronary angiography).

Figure 2: 2nd ECG: lower lateral modification by QS aspect (before diagnostic coronary angiography).

Figure 3: Image of the ETT: cuts 2 cavities, with the presence of a thrombus of 7x30mm lining the apex (fat red arrow).
Magnetic resonance imaging (MRI) left ventricle (LV) dilated and spherized without true aneurysm; Anterior akinesia (apical, median and part of the basal segment), AS, IS and apical. Apical dyskinesia. Aminated apical wall (<4mm) in AS, anterior and apical. LVEF 27%.

1st passage of Gadolinium: defect of myocardial perfusion at the septoapical (SA) and anteroapical (AA) level in favor of no-reflow. Intra-VG infusion defect in connection with apical thrombus.

Late sequences:
- Late transmural elevation at the level of the wall Antérieure, AS, ISA, apical and apical segments of the wall IL and Inf. No-reflow at the apex;
- Late sub-endocardial enhancement (<50%) at the level of the ISM wall;
- Large flat thrombus lining the AS wall, a thrombus at the level of the anteroapical wall, a rounded thrombus gros of 39x23mm at the level of the ISA wall. (Figure 5).

Angioplasty: revascularization by placing an active Stent on the average IVA (Figure 6).

Discussion
ACS means any chest pain of anginal appearance occurring de novo, prolonged or recently worsening in a patient with or without coronary history, most often accompanied by ECG abnormalities with type of ST+ segment overshfit for STEMI, a fortiori if the ECG was performed in per-critical [3]. Among the ACSs, we have the STEMI to which our patient is subjected, in circumferential, following an attack of the guilty artery posing a problem of complete interruption of the blood flow resulting in a necrosis of the territory downstream. This will be followed by the ischemic cascade which will result in the clinical expression made of infarctoid chest pain (ICP) (which is only the immersed part of the iceberg): infarctoid chest pain is the master symptom of Myocardial Ischemia (MI).

In particular, the absence of angina does not mean the ab-
sence of coronary artery disease. On the other hand, in proven coronary patients, the absence of angina does not necessarily imply a benign prognosis. Conversely, the severity of the symptomatology is not correlated with the spread of coronary artery disease and even less with its severity. Asymptomatic or silent myocardial ischemia (SMI) is defined by the presence of a subshift of the ST segment without contemporaneous pain [4]. On the other hand, Dr COHN, one of the first researchers on myocardial disease, defined the SMI as follows: Evidence (especially by various laboratory means) of myocardial ischemia or its complications, myocardial infarction, heart failure, ristheusand sudden death, without chest pain or other evalent anginal symptoms (e.g., dyspnea). He has developed an SMI classification, dividing patients into three types. Type 1 who is the patient totally asymptomatic, the one who has never had chest pain, nor dyspnea with documented coronary artery disease e. Next, we note type 2, which is the asymptomatic post-infarction patient. It is a patient who could have had angina before the infarction and at the time of his infarction but who subsequently became asymptomatic even with an electrocardiographic evidence (or by other laboratory means) of myocardial ischemia. Finally, there is the patient with angina and episodes of SMI [5]. By its definition, we attach SMI to the context of our patient who, without having suffered from any form of clinical expression of ischemia, makes a STEMI revealed at the post-IDM stage by an event of thromboembolic complications. In reference to his troponin level at admission with a decrease in kinetics, and an aspect of necrosis consumed at the ECG, let's classify our patient in the type 1, a STEMI in asymptomatic circumferential, passed unnoticed, despite the electrical changes during the same day of his admission. On this, Dr BEAUDRY, puts forward three possible causes of SMI: a) an adéquat insufflating stimulus; b) a defect in the peripheral perception of pain (by exemple: diabetic neuropath) and c) a defect in the central transmission in the painful sensation. The third possibility applies specially to type 1, to the patient who has never had angina or dyspnea as a symptom related to myocardial ischemia [6]. It was later shown that
mental stress or cigarette consumption led to episodes of SMI. The circadian rhythm is also involved by a significant increase in heart rate and systolic blood pressure may precede the onset of SMI episodes of daily life. And the threshold of ischemia depends on the duration of the increase in heart rate [4]. Our patient is not diabetic, so he would not suffer from diabetic neuropathy, moreover, he is inveterate smoker.

As for the endocavitary thrombus, its formation is classically favored by the elements of the Virchow triad: blood stasis, endothelial lesion and hypercoagulability. These three elements are present during the acute phase of infarction. That is estimated 12.2% of patients with previous STEMI have an endocavitary thrombus 7.

"On MRI, gadolinium does not penetrate the thrombus, late enhancement sequences show necrosis in hypersignal and thrombus in frank hyposignal" [7] (Figure 5). These thrombi are mainly located next to the tip of the VG, concern anterior MIs, with extensive infarction and only revascularization seems to limit the frequency of thrombi [7].

Support

During his hospitalization, we objectified kinetic disorders such as dyskinesia and akinesia as well as intra VG thrombus apical to ETT. The question of myocardial viability arises in case of akinesia of segmental contraction in the infarcted area in connection with stenosis or coronary occlusion. The aim is to determine whether or not coronary revascularization could restore contractile function. In addition, the assessment of the size of the MI is essential in the acute phase, as it conditions ventricular remodeling and clinical prognosis [7]. If a myocardial segment of the same territory of the guilty artery was viable, the patient underwent a revascularization by angioplasty with the establishment of an active Stent on the average IVA. Oral anticoagulation was indicated over the long term for up to six (6) months, during which time it would be assessed by a repeat of imagingexaminations. As for the rest of its therapeutic management, it has been in line with the latest recommendations of the European Society of Oncology MIs with overlag of the ST [8].

Conclusion

Silent myocardial ischemia is common but not often reported, according to the case of our patient. How many patients do not consult at the stage of complications of an MI consumed that has gone unnoticed. It remains to prove the causes in a patient without diabetic neuropathy, as well as to make the link between silent ischemia and smoking. The fact remains that silent myocardial ischemia is a silent killer that is not sufficiently denounced.

References

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